

ABSTRACT

A method and apparatus for cooling an air conditioning system's condensing coils utilizing an air filter pad made of glass fibers with self contained, perforated water capillary tubes allowing moisture to permeate the filter pad. The filter pads may be connectable in series and provided with integral mounting strips for fixed or magnetic, internal or external attachment to the condensing unit. Special adaptive solenoids are also provided to allow for minimum flow of water over long periods of time. Dual sensors are provided connected to both the high and low side of the compressor for sensing compressor temperature status and switching the solenoid on and off, thereby preventing freezing of the compressor. A unique method for applying chilled water to the capillary tubes by coiling the capillary tube around the suction line of the compressor is utilized. The system may be provided in kits with several pads adapted for use with a wide variety of condensing unit configurations including automotive and further includes valves, tubing, wiring and connection boxes, insulation components for enclosing compressor tubing and water pump and reservoir as required, along with detailed instructions for assembly and installation.